



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com
Website : www.eaepl.com / www.enviroanalysts.com

Water Sample Analysis Report

Report No - EAEPL/PM/LTL/11/09/2016		Report Date -14.09.2016	
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference - Work Order No.
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		5200001112
Nature and Description of Sample	Ground Water	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) W/PM/11/09/16 (BMC Water)	Sample quantity and packing	2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle.
		Preservation	Cool -Transported and stored at 5°C (± 1°C).
Date of Sampling	07.09.2016	Date of Receipt	08.09.2016
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	08.09.2016 to 13.09.2016		
Report for the month	September, 2016.		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable limits	Permissible Limits	
pH	-	7.10	6.5-8.5	No relaxation	IS 3065 (Part 11) (1983)
TDS	mg / l	248.93	500	2000	By EC-TDS Meter
Turbidity	NTU	0.05	1	5	APHA 2130 B (22 nd Edition)
Dissolved Oxygen	mg / l	5.2	-	-	IS3065 part 38 (1989)
Alkalinity	mg / l	45.00	200	600	IS: 3065 (Part 23) (1986)
Chlorides as Cl	mg / l	62.48	250	1000	APHA 4500 Cl B (22 nd Edition)
Total Hardness	mg / l	150.00	200	600	APHA 2340 C (22 nd Edition)
Calcium	mg / l	32.06	75	200	APHA 3500 Ca B (22 nd Edition)
Residual chlorine	mg / l	Nil	0.20	1	IS 3065 part 26 (1986)
Sulphate	mg / l	15.8	200	400	IS3065 part24 (1986)
Nitrate	mg / l	0.31	45	No relaxation	EPA 352.1
Fluoride	mg / l	0.20	1	1.5	APHA 4500 F, D (22 nd Edition)
Heavy Metals:					
Iron (Fe)	mg / l	0.093	0.3	No relaxation	APHA 3111 (22 nd Edition)
Copper (Cu)	mg / l	0.008	0.05	1.5	APHA 3111 (22 nd Edition)
Zinc (Zn)	mg / l	0.068	5	15	APHA 3111 (22 nd Edition)
Lead (Pb)	mg / l	0.001	0.01	No relaxation	APHA 3111 (22 nd Edition)
Chromium (Cr)	mg / l	0.010	0.05	No relaxation	APHA 3111 (22 nd Edition)
Total Coliform	MPN/100ml	4.00	Nil	Shall not be detectable in any 100 ml sample	APHA 9221(B & C) (22 nd Edition)
E coli	MPN/100ml	Absent	Absent	Absent	APHA 9221 (G) (22 nd Edition)

-----End-----

Nagpur Branch :

Shiv Kunj, Bunglow No. 65,
 Old Verma Layout,
 Ambazari, Nagpur - 440 010
 Tel. : 0712 - 2241835,
 Telefax : 2241836

Factory :

Plot No. E - 122,
 MIDC Tarapur,
 Boisar,
 Thane - 401 506

Lab. :

Row House No.2, Shalom Garden,
 Opp. Kanakia College,
 100 FT., Kanakia Road,
 Mira Rd. (E), Thane - 401 107.
 Tel.: 66555854

Mob. 8879976441

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge



Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com
Website : www.eaepl.com / www.enviroanalysts.com

Ambient Air Quality Monitoring Report

Report No - EAEPL/PM/LTL/10/09/2016			Report Date - 14.09.2016
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference – Work Order No. 5200001112
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) A/PM/10/a,b/09/16 (Near Gate No:3)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle NO _x = 1 * 1 No. PVC bottle
		Sample Preservation	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	07.09.2016	Date of Receipt	08.09.2016
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	08.09.2016 to 13.09.2016		
Report for the month	September, 2016.		

Environmental Conditions			
Ambient air Temperature (°C)		Relative humidity (%)	Duration of Monitoring
30.0		74.0	8 Hours
RESULTS			
Monitoring Locations	Near Gate No:3	NAAQS LIMITS	METHOD
Pollution Parameters	Results		
R.S.P.M (PM ₁₀) (µg/m ³)	36.18	100 µg/m ³	Gravimetric
R.S.P.M (PM _{2.5}) (µg/m ³)	13.72	60 µg/m ³	Gravimetric
SO ₂ (µg/m ³)	12.36	80 µg/m ³	Improved West & Gaeke method
NOx (µg/m ³)	15.65	80 µg/m ³	Modified Jacob & Hochheiser (Na- Arsenite)

Remark: All the measured values are within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :
Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel.: 88555001
Mob. 8819976441



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com
Website : www.eaepl.com / www.enviroanalysts.com

Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/LTL/13/09/2016			Report Date - 14.09.2016
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference – Work Order No. 5200001112
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) N/PM/13/09/16	Sample quantity and packing	Not Applicable
Date of Sampling	07.09.2016	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	September, 2016.		

Monitoring Locations	Units	Results	CPCB Norms	
		Day Time	Day	Night
Near gate No: 3	dB(A) Leq.	57.4	55	45
Centre Side	dB(A) Leq.	54.1	55	45
Back Side	dB(A) Leq.	55.8	55	45
East Side	dB(A) Leq.	52.6	55	45

Remark: The noise level was observed to be within CPCB limit at all of the locations except near gate no: 3.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).

2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :
Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel.: 022 25500001
Mob. 88 79976441



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066

Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com

Website : www.eaepl.com / www.enviroanalysts.com

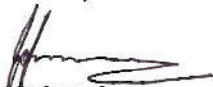
Soil Sample Analysis Report

Report No. - EAEPL/PM/LTL/12/09/2016			Report Date - 14.09.2016
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference – Work Order No. 5200001112
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) S/PM/12/09/16	Sample quantity and packing	500 gm X 1 zip lock bag
		Preservation	Transported & Stored in dry area
Date of Sampling	07.09.2016	Date of Receipt	08.09.2016
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-076. December 1984.		
Period of Analysis	08.09.2016 to 13.09.2016		
Report for the month	September, 2016.		

Parameters	Unit	Results	Methods
pH	-	7.18	As per manual
EC	µS/cm	268.20	As per manual
Organic Matter	%	2.93	Maiti, pg.no. - 168
Available Phosphorus	mg/100gm	10.00	Goal, pg. no. 106
Total Kjeldhal Nitrogen	%	1.07	Maiti, pg.no. - 171
Soil Moisture	%	12.70	Maiti, pg. no. - 153
Water Holding Capacity	%	37.68	Ex.16. Text Book By S. Anand Net Port-80
Chlorides	mg/100gm	12.01	Goal, pg. no. - 100
Calcium	mg/100gm	148.74	Goal, pg. no.- 110
Magnesium	mg/100gm	38.89	Goal, pg. no.- 110
Sulphate	mg/100gm	24.30	Goal, pg. no.- 101
Sodium (Na)	ppm	26.19	Maiti, pg. no.- 188
Potassium (K)	ppm	35.02	Maiti, pg. no.- 188
Heavy Metals:			
Iron	ppm	713.70	Maiti, pg. no. 188
Copper	ppm	2.37	Maiti, pg. no. 188
Lead	ppm	1.09	Maiti, pg. no. 188
Zinc	ppm	1.95	Maiti, pg. no. 188

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,


Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).

2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :

Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :

Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :

Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel.: 05555001



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066

Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com

Website : www.eaepl.com / www.enviroanalysts.com

Ambient Air Quality Monitoring Report


Report No - EAEPL/PM/LTL/13/11/2016		Report Date - 17.11.2016	
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference – Work Order No.
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		5200001112
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) A/PM/13/a,b/11/16 (Near Gate No: 3)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle NO _x = 1 * 1 No. PVC bottle
		Sample Preservation	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	10.11.2016	Date of Receipt	11.11.2016
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	11.11.2016 to 16.11.2016		
Report for the month	November, 2016.		

		Environmental Conditions	
Ambient air Temperature (°C)		Relative humidity (%)	Duration of Monitoring
26.0		78.0	8 Hours
		RESULTS	
Monitoring Locations	Near Gate No: 3	NAAQS LIMITS	METHOD
Pollution Parameters	Results		
R.S.P.M (PM ₁₀) (µg/m ³)	39.92	100 µg/m ³	Gravimetric
R.S.P.M (PM _{2.5}) (µg/m ³)	15.74	60 µg/m ³	Gravimetric
SO ₂ (µg/m ³)	10.44	80 µg/m ³	Improved West & Gaeke method
NOx (µg/m ³)	13.68	80 µg/m ³	Modified Jacob & Hochheiser (Na- Arsenite)

Remark: All the measured values are within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,


Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).

2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :
Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel.: 65555851



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaapl.com
Website : www.eaapl.com / www.enviroanalysts.com

Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/LTL/15/11/2016			Report Date - 17.11.2016
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference - Work Order No. 5200001112
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) N/PM/15/11/16	Sample quantity and packing	Not Applicable
Date of Sampling	10.11.2016	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	November, 2016.		

Monitoring Locations	Units	Results	CPCB Norms	
		Day Time	Day	Night
Near gate no: 3	dB(A) Leq.	55.1	55	45
Centre side	dB(A) Leq.	54.5	55	45
Back Side	dB(A) Leq.	54.4	55	45
Gate no: 1	dB(A) Leq.	53.6	55	45

Remark: The noise level was observed to be marginally higher than CPCB limit at Near Gate no: 3.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :
Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel.: 6666666
Mob 8879976441



ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

CIN No.: U28900MH1995PTC093129



B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 Fax : +91 22 2854 1290 E-mail : info@eaepl.com
Website : www.eaepl.com / www.enviroanalysts.com

Soil Sample Analysis Report

Report No. - EAEPL/PM/LTL/14/11/2016		Report Date - 17.11.2016	
Name of Customer	M/s. Larsen & Toubro Ltd.(Realty Division)		Reference - Work Order No.
Site Address	CTS NO. 112,115 of Village Tungwa & CTS NO. 86,87 of Village Paspoli Mumbai, Maharashtra.		5200001112
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) S/PM/14/11/16	Sample quantity and packing	500 gm X 1 zip lock bag
		Preservation	Transported & Stored in dry area
Date of Sampling	07.11.2016	Date of Receipt	11.11.2016
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-076. December 1984.		
Period of Analysis	11.11.2016 to 16.11.2016		
Report for the month	November, 2016.		

Parameters	Unit	Results	Methods
pH	-	7.24	As per manual
EC	μS/cm	289.50	As per manual
Organic Matter	%	2.68	Maiti, pg.no. - 168
Available Phosphorus	mg/100gm	4.00	Goal, pg. no. 106
Total Kjeldhal Nitrogen	%	0.69	Maiti, pg.no. - 171
Soil Moisture	%	17.48	Maiti, pg. no. - 153
Water Holding Capacity	%	35.77	Ex.16. Text Book By S. Anand Net Port-80
Chlorides	mg/100gm	9.01	Goal, pg. no. - 100
Calcium	mg/100gm	139.16	Goal, pg. no.- 110
Magnesium	mg/100gm	34.03	Goal, pg. no.- 110
Sulphate	mg/100gm	10.90	Goal, pg. no.- 101
Sodium (Na)	ppm	21.162	Maiti, pg. no.- 188
Potassium (K)	ppm	30.831	Maiti, pg. no.- 188
Heavy Metals:			
Iron	ppm	664.50	Maiti, pg. no. 188
Copper	ppm	1.345	Maiti, pg. no. 188
Lead	ppm	0.910	Maiti, pg. no. 188
Zinc	ppm	1.533	Maiti, pg. no. 188

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

- Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout,
Ambazari, Nagpur - 440 010
Tel. : 0712 - 2241835,
Telefax : 2241836

Factory :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Thane - 401 506

Lab. :
Row House No.2, Shalom Garden,
Opp. Kanakia College,
100 FT., Kanakia Road,
Mira Rd. (E), Thane - 401 107.
Tel. ~~65568851~~ Mob. 8879976441